1. Why Java Strings are Immutable?
2. If String is immutable, are their reference variables immutable?
3. Difference between Array & ArrayList?
4. Difference between ArrayList & LinkedList?
5. Explain the internal working of HashMap.
6. What is the difference between List & Set?
7. Can we declare a constructor private?
8. How do you debug a Java application in eclipse?
9. Which tools do you know for ensuring Java Code quality?
10. Can you modify the collection return by Arrays.asList()? If no, why?
11. Why did Spring got evolved into SpringBoot? What were the main reasons? Or what are the benefits of SpringBoot.
12. How do we create a SpringBoot application?
13. How do we change the port of a SpringBoot application?
14. What is the difference between StringBuffer and StringBuilder?
15. When do we use StringBuffer/Builder instead of String?
16. What is the key difference between shallow copy and deep copy in Java. Is the clone() method a shallow or a deep copy?
17. Can we clone all Java objects? What should we do to clone an object?
18. What is the difference between abstract class and default method interface? Or what is the difference between abstract method and default method?
19. Where is final and finally keywords used?
20. What are wrapper classes in Java?
21. Advantages of using React over plain JavaScript?
22. What are the different types of join in SQL?
23. State some of the differences introduced in Java 8 interface?
24. What is the difference between String s = “abc”; and String s = new String(“abc”);?
25. Can you explain a Thread lifecycle?
26. What is the purpose of a synchronized block? Can static methods be synchronized?
27. What is Comparable and Comparator interface? In which scenario should we use one over the other?
28. What is a Marker interface? What do we need a Marker interface?
29. What is the use of Serialization?
30. How to we monitor our SpringBoot application?
31. When should we use/prefer application.yml over application.properties in SpringBoot?
32. What is API Gateway used for in Microservices?
33. How do microservices communicate with each other? What are the different ways of communication we can adopt?
34. What are the different ways of creating a Thread?
35. What is a Future interface? Explain the steps of working with Future?
36. What is the difference between Builder and Factory design patterns?
37. Tell me 5 spring Annotations that you have used? (Excluding the stereotype annotations).
38. Is it required to write @Repository annotations in spring data JPA?
39. Explain the Spring Data Project and the hierarchy ?
40. What is a java config file? Can we use final for a Java Config file?
41. How do a CGLIB Proxy works with @Bean?
42. @Component vs @Bean . What is the difference between creating a bean with @Bean and creating a bean with @Component ?
43. Update vs Merge | Difference between update and merge method in JPA / Hibernate?
44. What is this DispatcherServlet in SpringMVC?
45. How will you handle exceptions in Spring RestAPI controllers?
46. What is ThreadLocal in Java?
47. Difference between @component vs @Service vs @Repository annotations?
48. Explain Spring Bean Lifecycle.
49. What is difference between Spring RestTemplate.getForObject() and RestTemplate.getForEntity() ?
50. What are the uses of ResponseEntity?
51. Should you use JWT or Session-based authentication in the microservices environment?
52. What is content negotiation in RestAPI?
53. What is the use of a Mockito framework?
54. How can we read a JSON object when testing a RestAPI?
55. What is JDBC API & JDBS Driver API?
56. What are the common JDBC API components/classes?
57. Which JDBC Driver type is the fastest one?
58. What do you mean by Behaviour parameterization?
59. What is a Lambda expression? Where can we use it? What is a function descriptor?
60. What is the difference between CollectionAPI and StreamAPI?
61. Explain map, filter operations in Stream?
62. In a @OneToMany-@ManyToOne bidirectional relationship, who is the owner of the relationship? Which JPA annotation depicts the ownership?
63. What is a PersistentContext in JPA?
64. What is the difference between a BeanFactory and ApplicationContext in Spring?
65. What is a BeanFactoryPostProcessor?
66. Explain the different Bean Scopes in Spring?
67. What is a Aspect in SpringAOP?
68. How do we create an Around Advice in Spring AOP?
69. What is the use of a FactoryBean in Spring?
70. What are template literals in ES6?
71. How can we create a copy of a JavaScript object in ES6?
72. What do you mean by Object destructuring?
73. What is a Global Object in JavaScript? In a browser environment, which is the Global Object?
74. What is Hoisting in JavaScrip?
75. Explain the behaviour of the ‘this’ keyword in ES6 fatarrow function and old JavaScript function.
76. What is the difference between var and let keyword?
77. What is a Closure in JavaScript?
78. What is the difference between Named and Default export in ES6?
79. Differentiate Between Virtual DOM and Real DOM?
80. What is the meaning of JSX?
81. Are there any Disadvantages to using react?
82. What is this Strict mode in JavaScript/React?
83. What are Hooks in React?
84. What is a props object in JSX Component?
85. What is the difference between a Hypervisor VM’s and containers?
86. What is a Docker daemon?
87. How does Docker work? Or Explain Docker architecture.
88. State some of the commands we give in a Dockerfile.
89. Explain about Docker image?
90. How do we create a container from a Docker image? Or which command is used to run an image as a container?
91. Describe the various services you learned in AWS?
92. What is a VPC in AWS?
93. How do we accomplish a CI/CD pipeline in AWS?